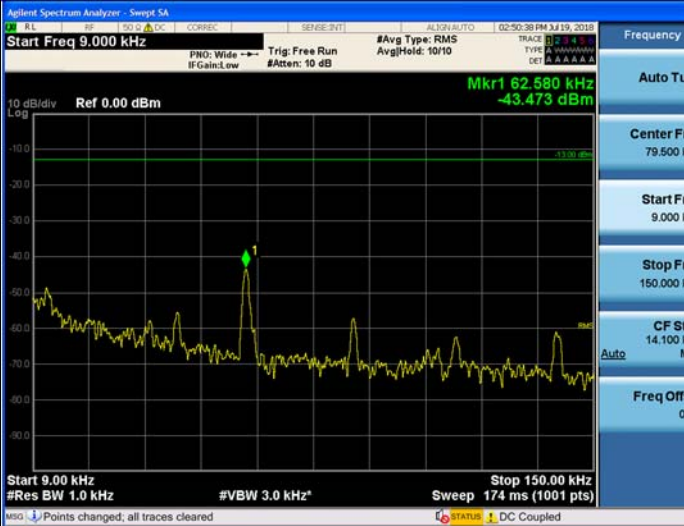
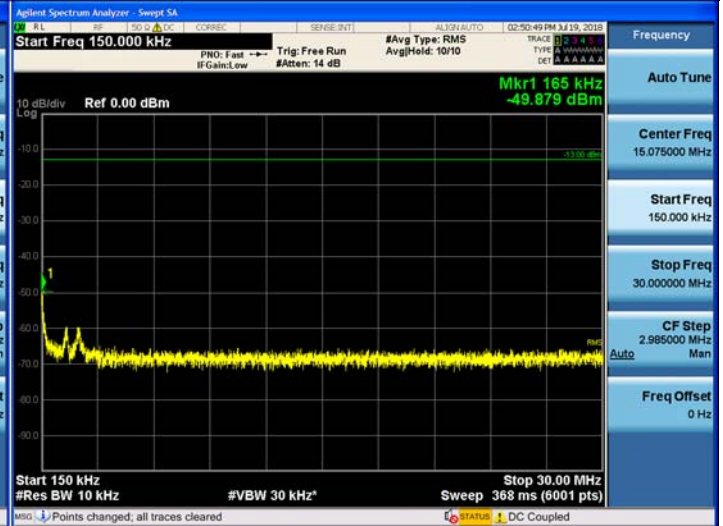


Middle Channel

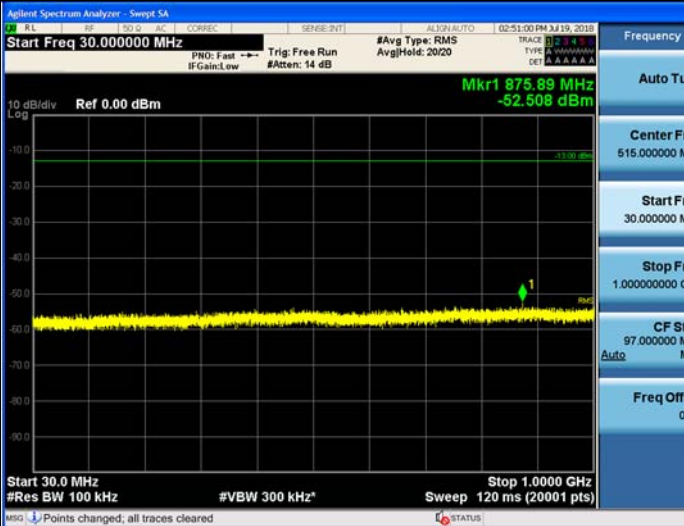
9 kHz ~ 150 kHz



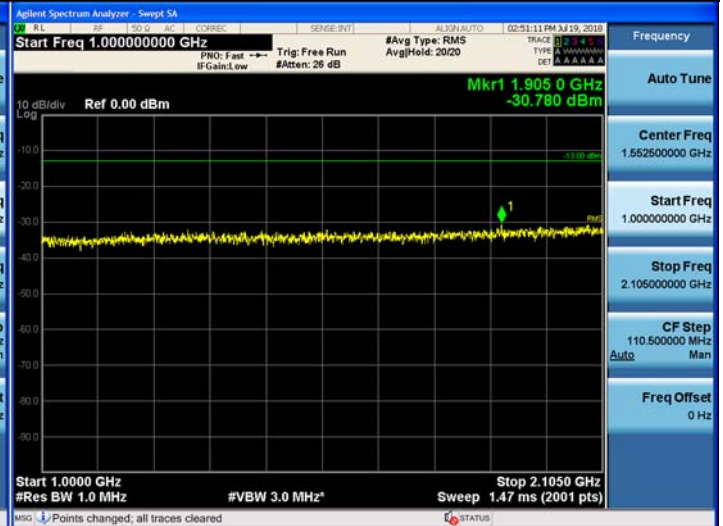
150 kHz ~ 30 MHz



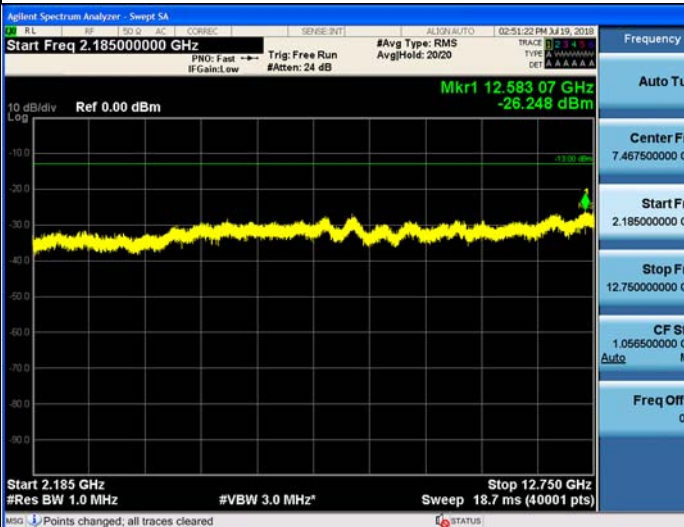
30 MHz ~ 1 GHz



1 GHz ~ 2.105 GHz



2.185 GHz ~ 12.75 GHz

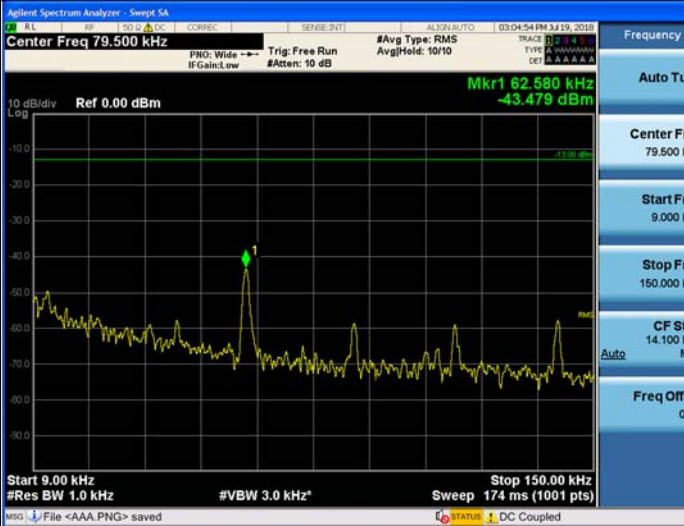


12.75 GHz ~ 26.5 GHz

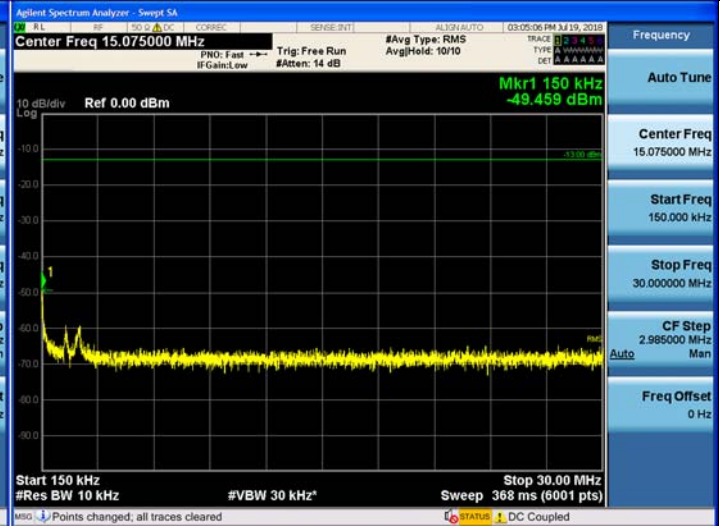


High Channel

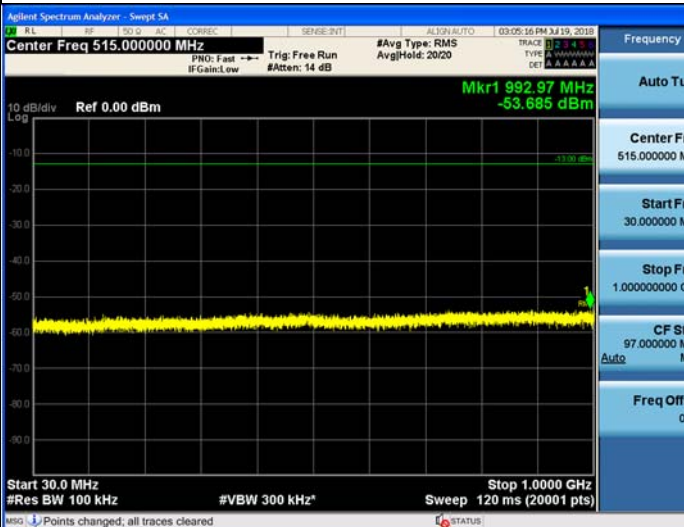
9 kHz ~ 150 kHz



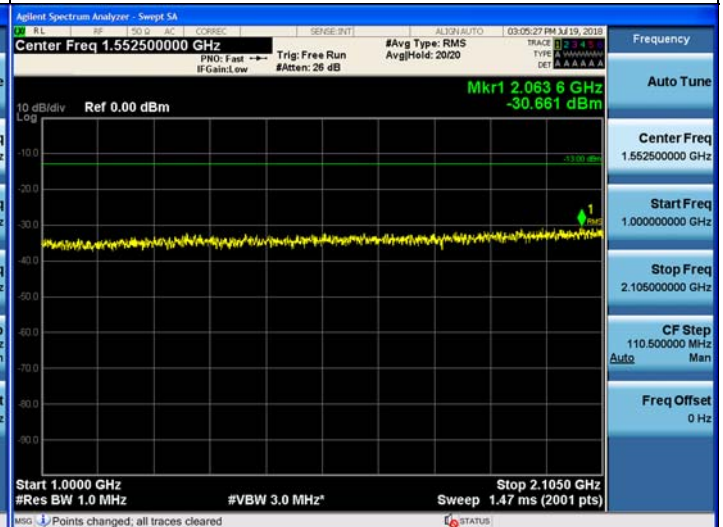
150 kHz ~ 30 MHz



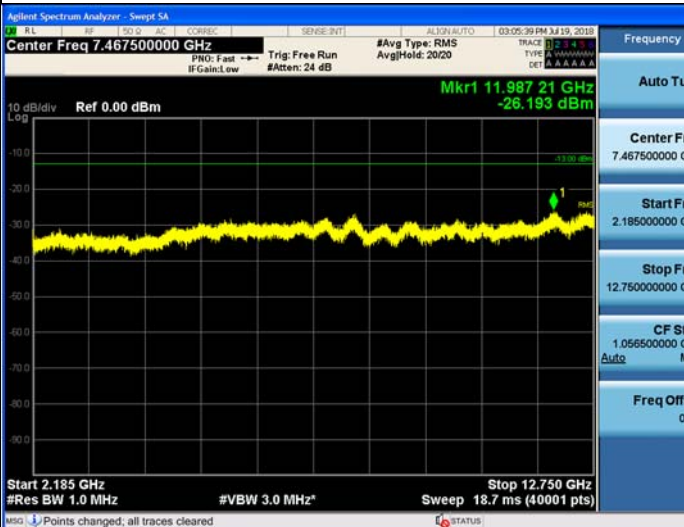
30 MHz ~ 1 GHz



1 GHz ~ 2.105 GHz



2.185 GHz ~ 12.75 GHz



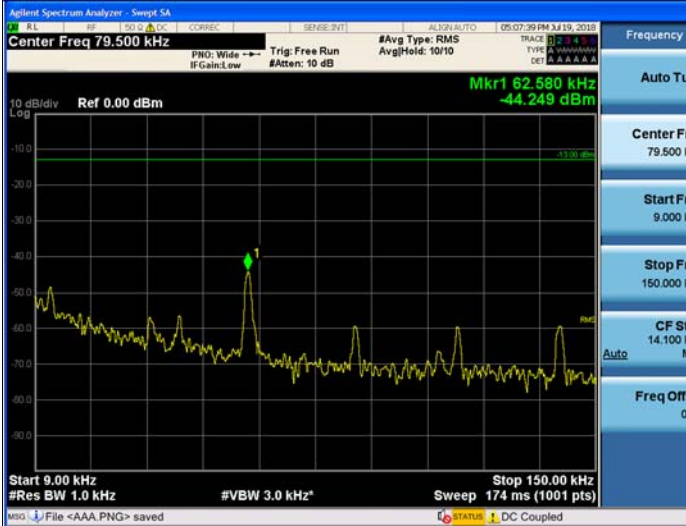
12.75 GHz ~ 26.5 GHz



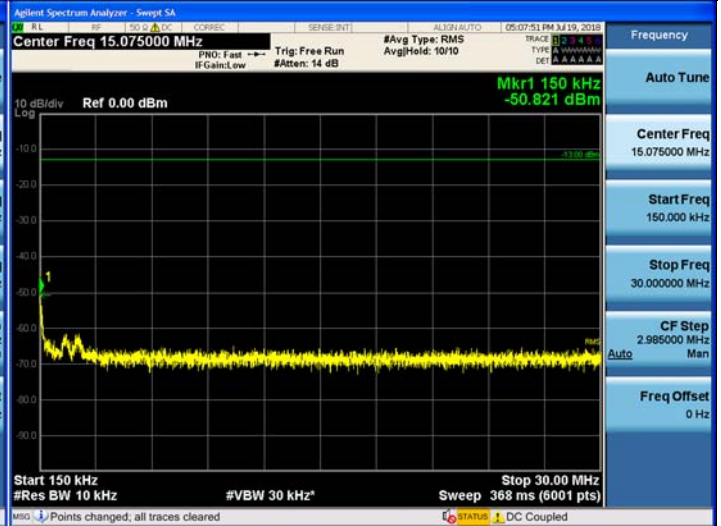
Plots of Unwanted Conducted Emissions for AWS 2100 Band LTE 10 MHz

Low Channel

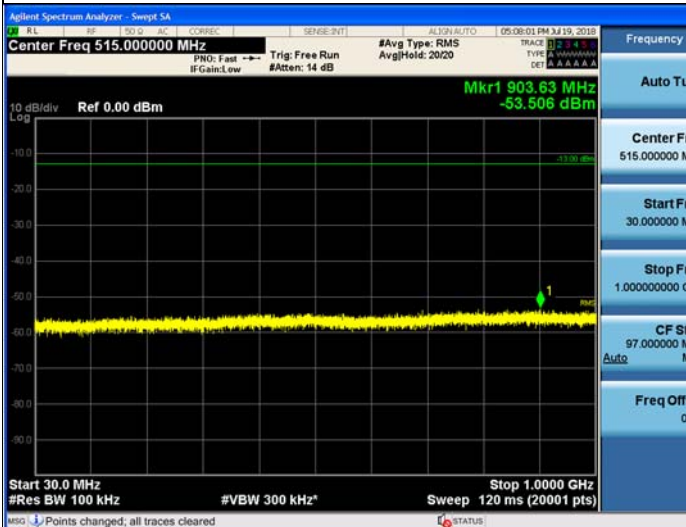
9 kHz ~ 150 kHz



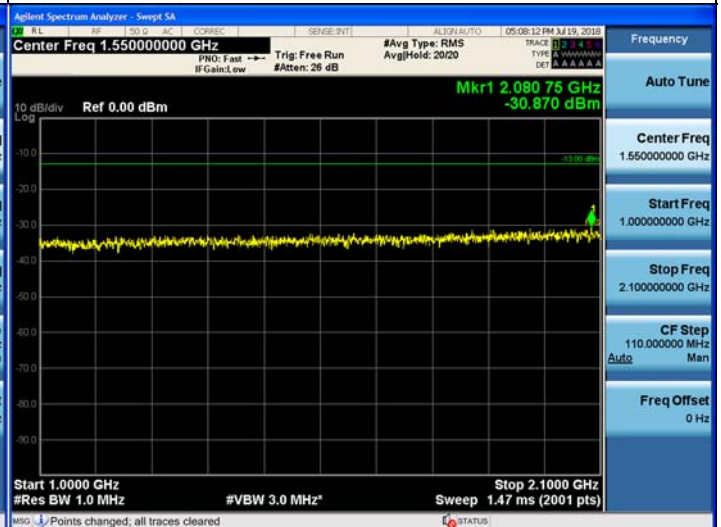
150 kHz ~ 30 MHz



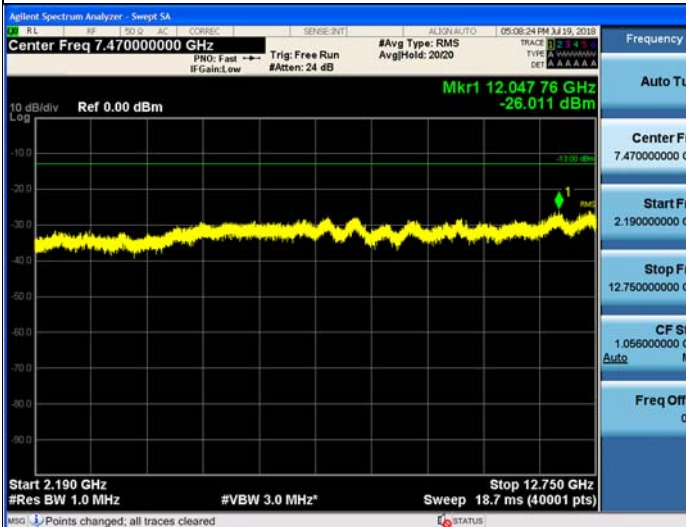
30 MHz ~ 1 GHz



1 GHz ~ 2.100 GHz



2.19 GHz ~ 12.75 GHz

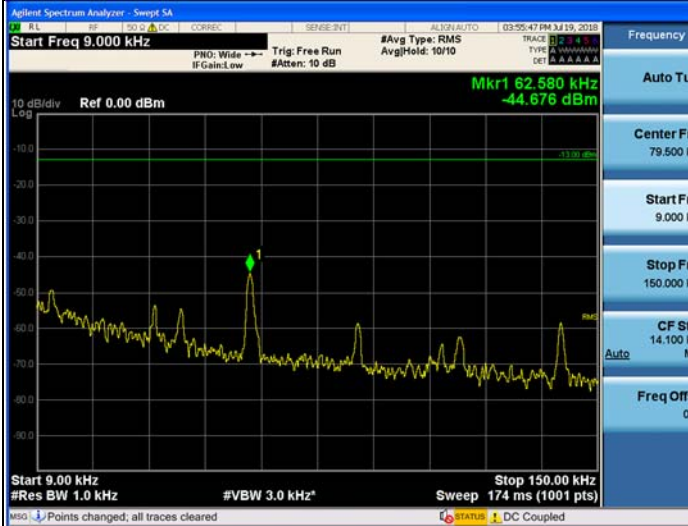


12.75 GHz ~ 26.5 GHz

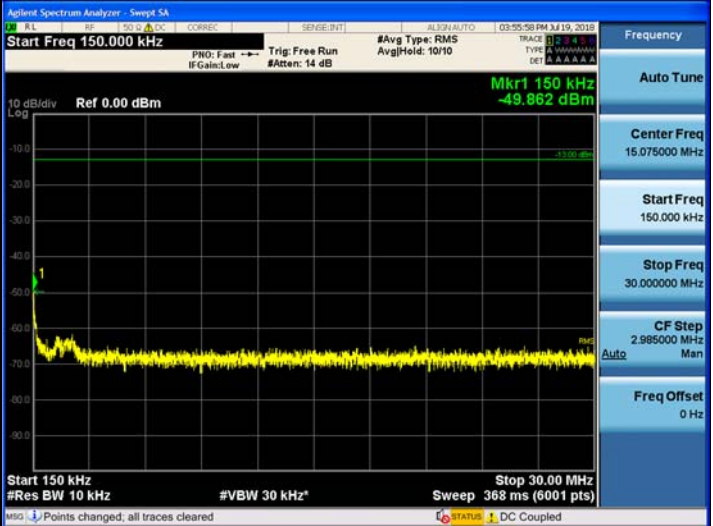


Middle Channel

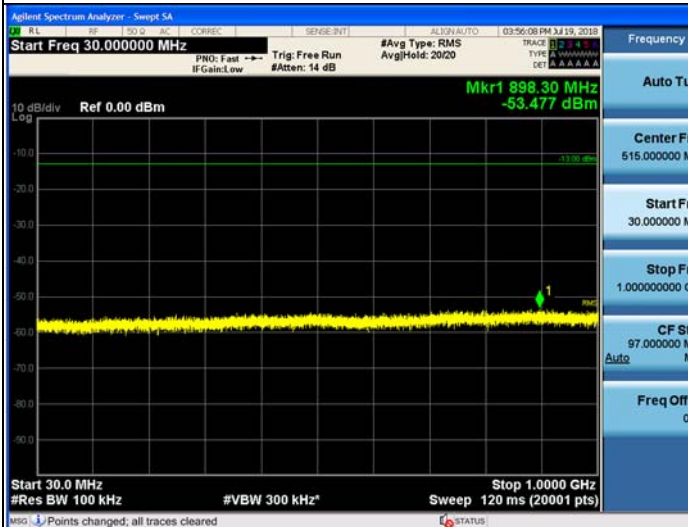
9 kHz ~ 150 kHz



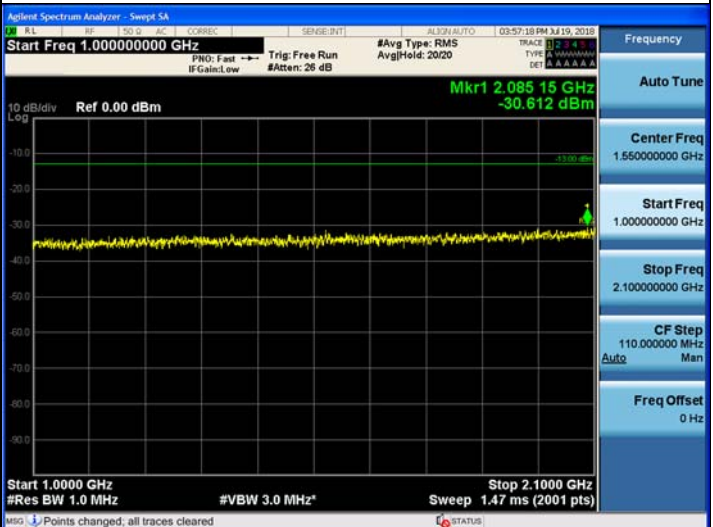
150 kHz ~ 30 MHz



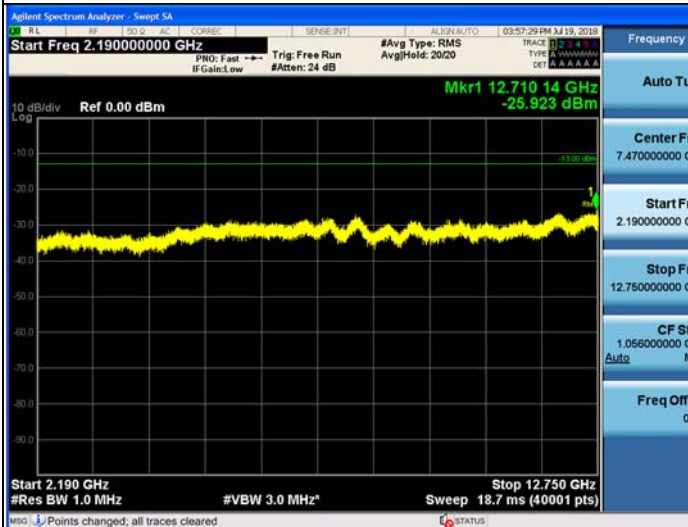
30 MHz ~ 1 GHz



1 GHz ~ 2.100 GHz



2.19 GHz ~ 12.75 GHz



12.75 GHz ~ 26.5 GHz

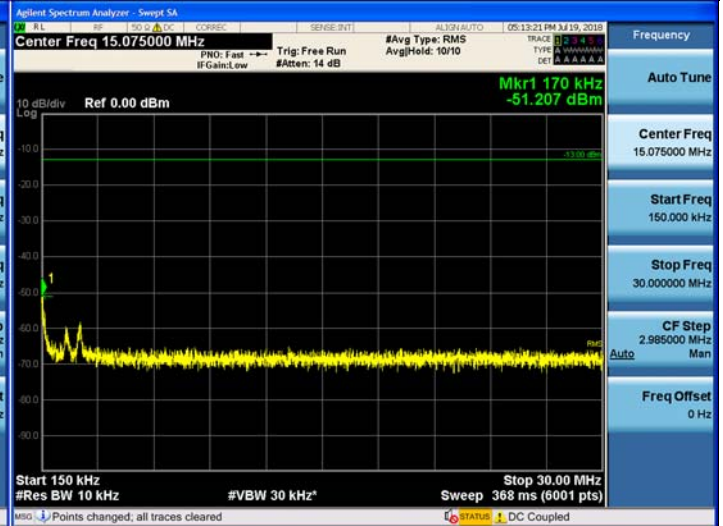


High Channel

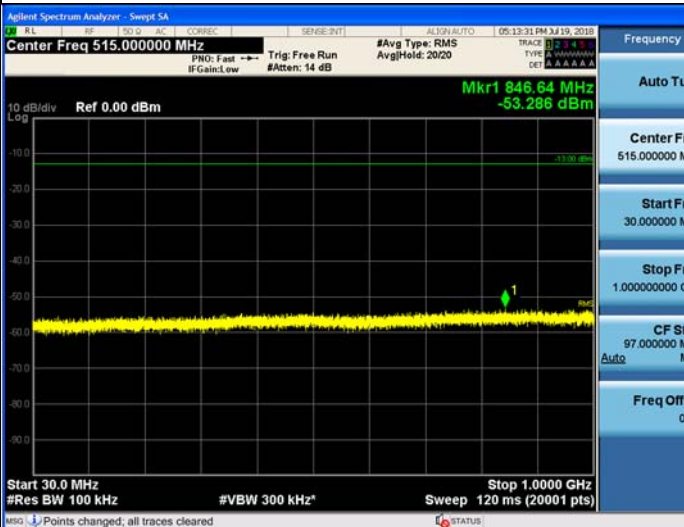
9 kHz ~ 150 kHz



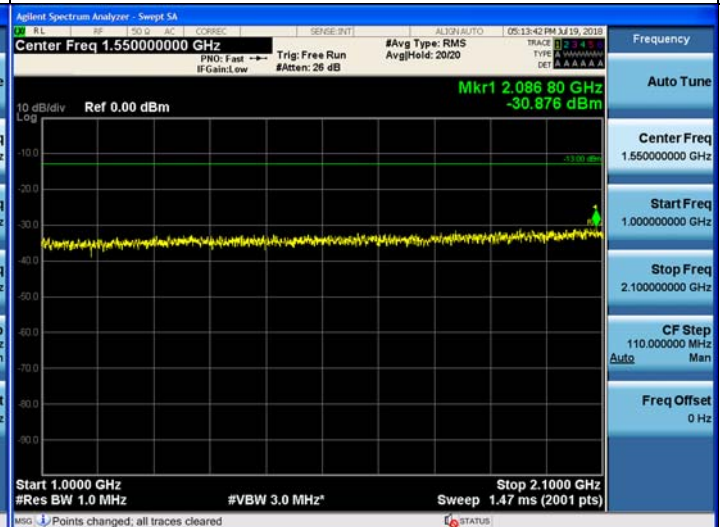
150 kHz ~ 30 MHz



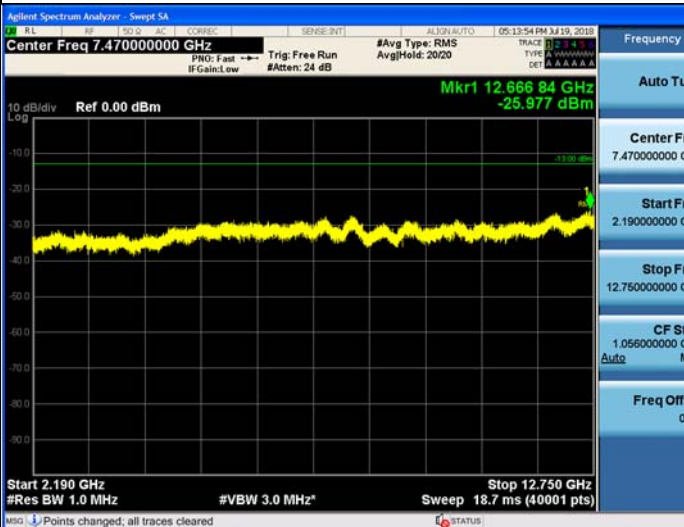
30 MHz ~ 1 GHz



1 GHz ~ 2.100 GHz



2.19 GHz ~ 12.75 GHz



12.75 GHz ~ 26.5 GHz



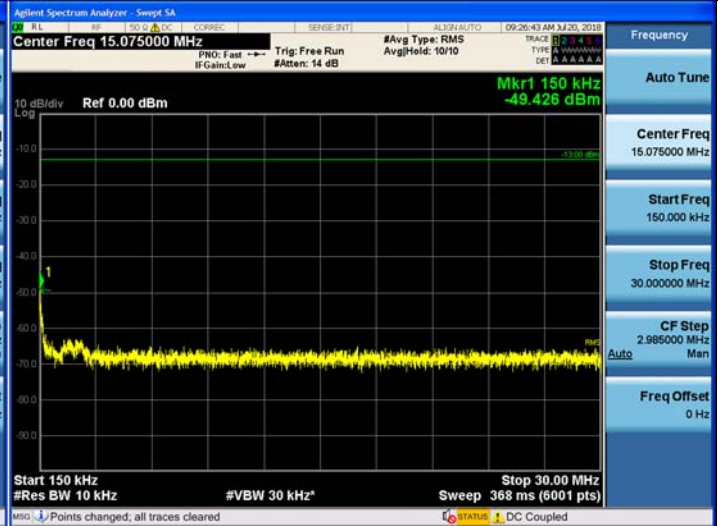
Plots of Unwanted Conducted Emissions for AWS 2100 Band LTE 20 MHz

Low Channel

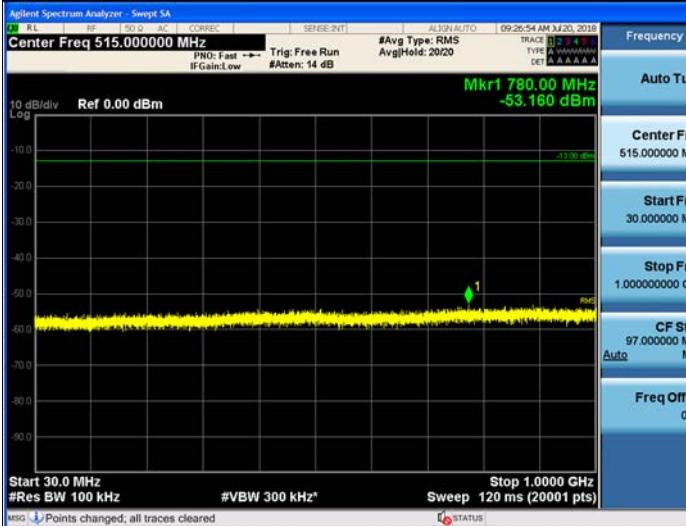
9 kHz ~ 150 kHz



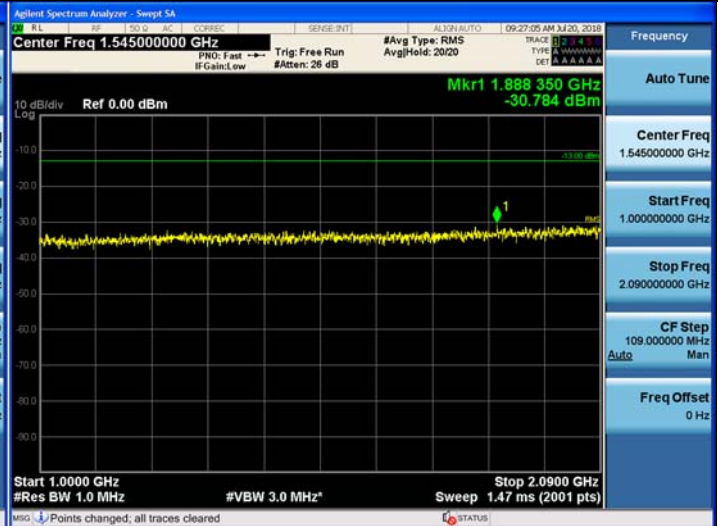
150 kHz ~ 30 MHz



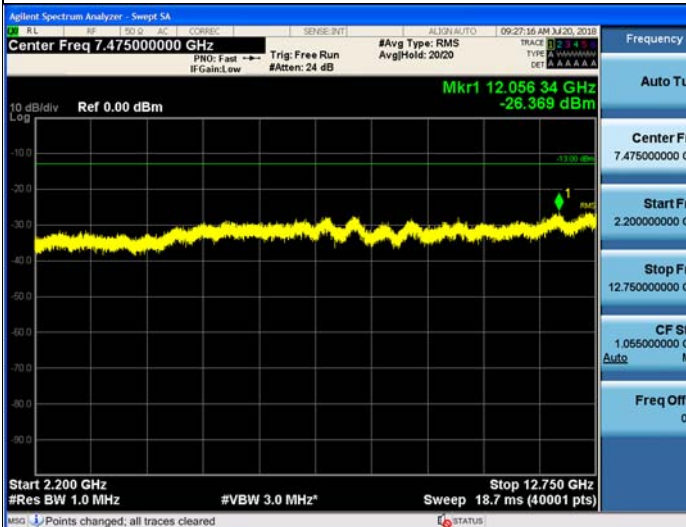
30 MHz ~ 1 GHz



1 GHz ~ 2.09 GHz



2.20 GHz ~ 12.75 GHz

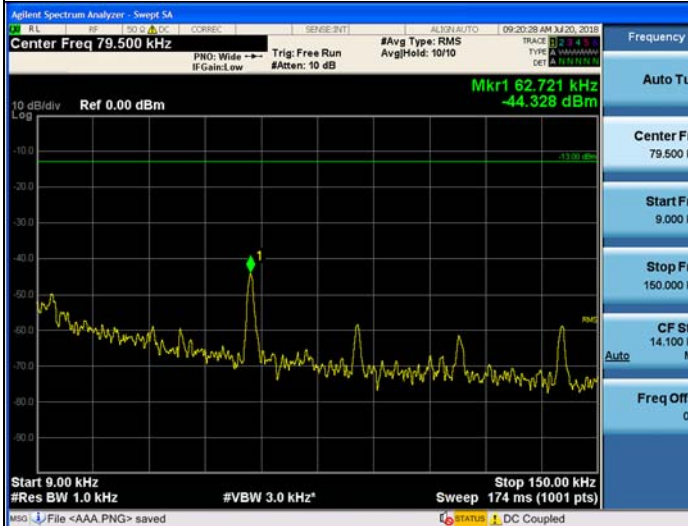


12.75 GHz ~ 26.5 GHz

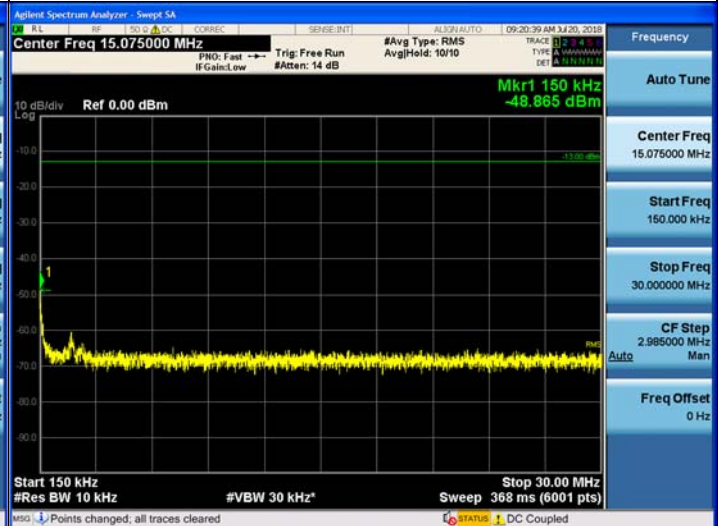


Middle Channel

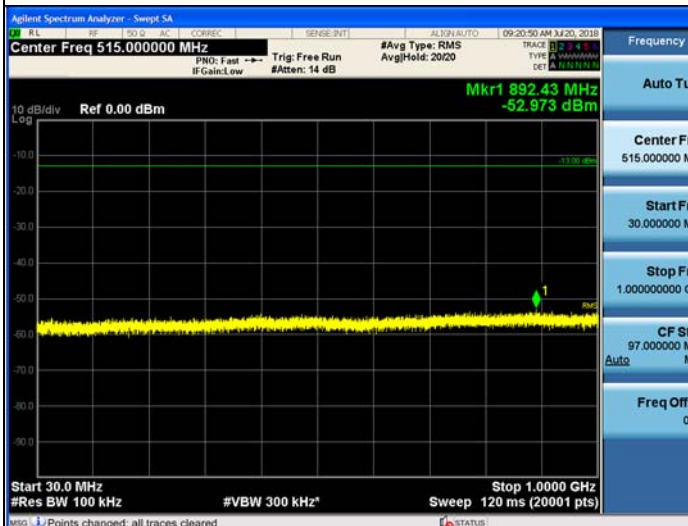
9 kHz ~ 150 kHz



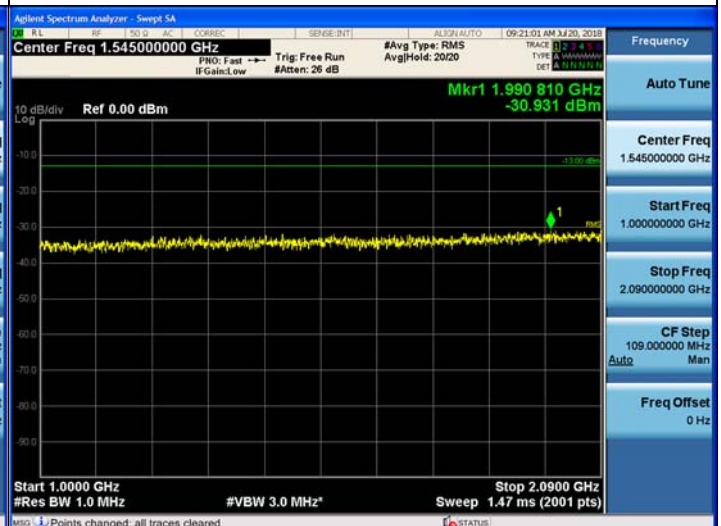
150 kHz ~ 30 MHz



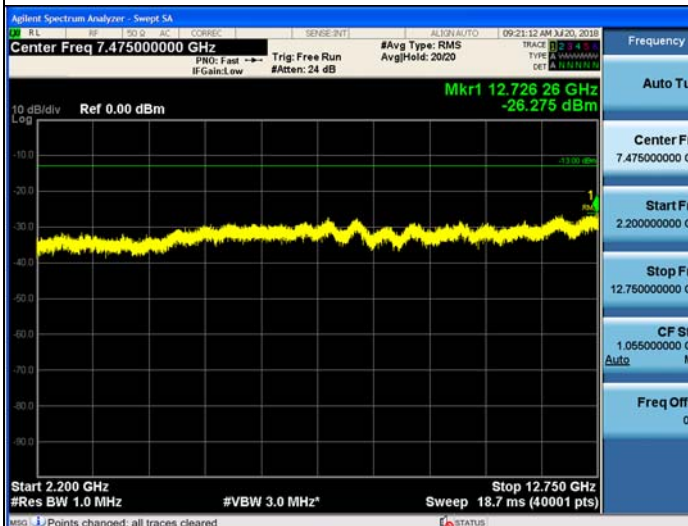
30 MHz ~ 1 GHz



1 GHz ~ 2.09 GHz



2.20 GHz ~ 12.75 GHz

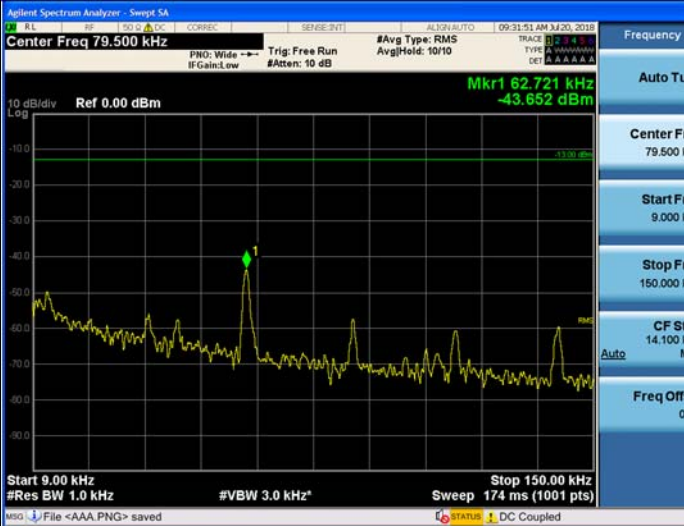


12.75 GHz ~ 26.5 GHz

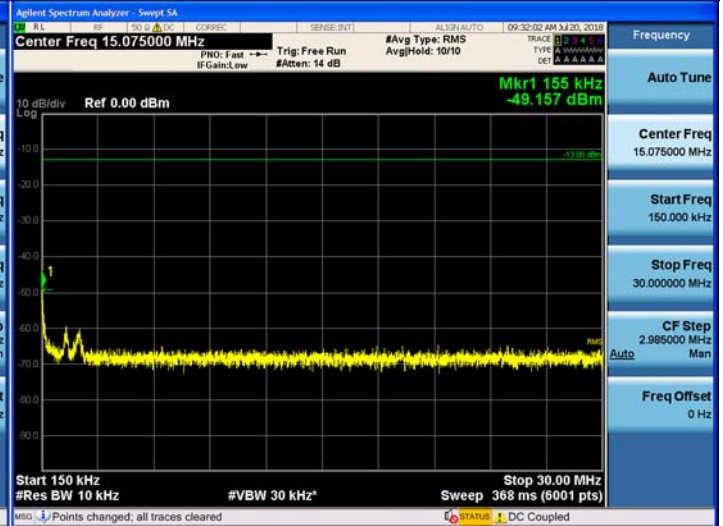


High Channel

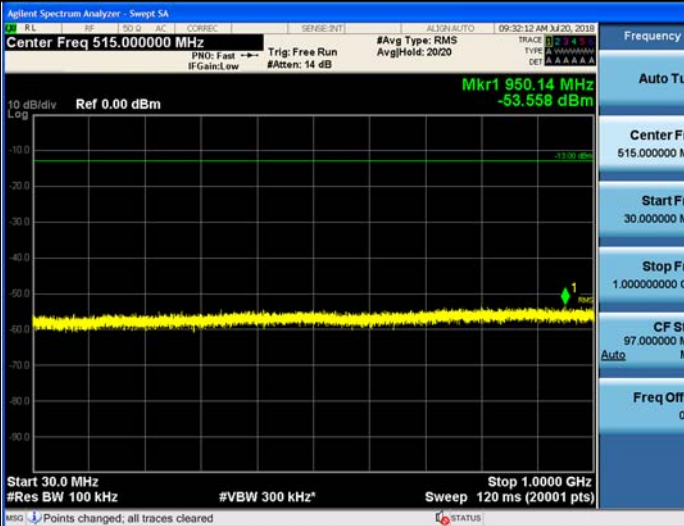
9 kHz ~ 150 kHz



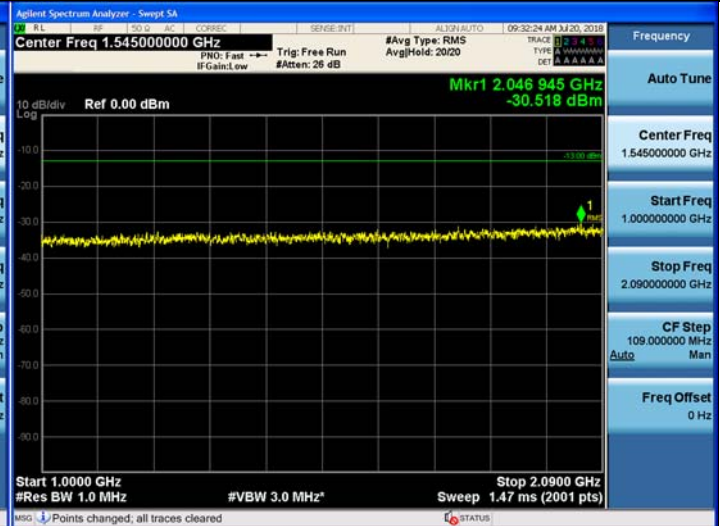
150 kHz ~ 30 MHz



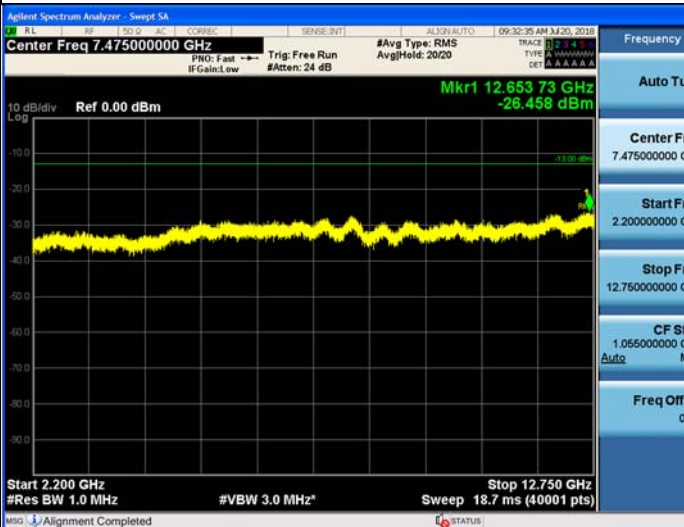
30 MHz ~ 1 GHz



1 GHz ~ 2.09 GHz



2.20 GHz ~ 12.75 GHz



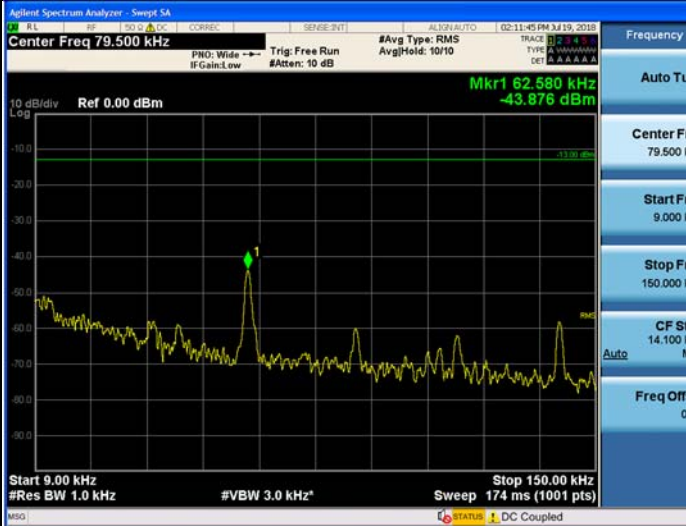
12.75 GHz ~ 26.5 GHz



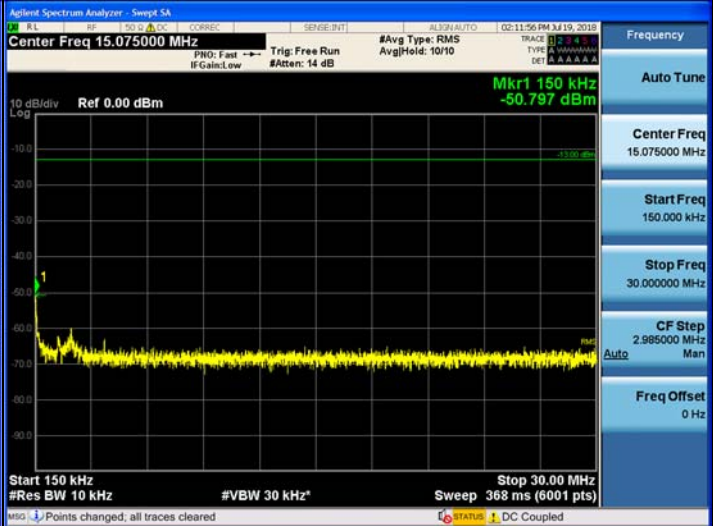
Plots of Unwanted Conducted Emissions for AWS 2100 Band WCDMA

Low Channel

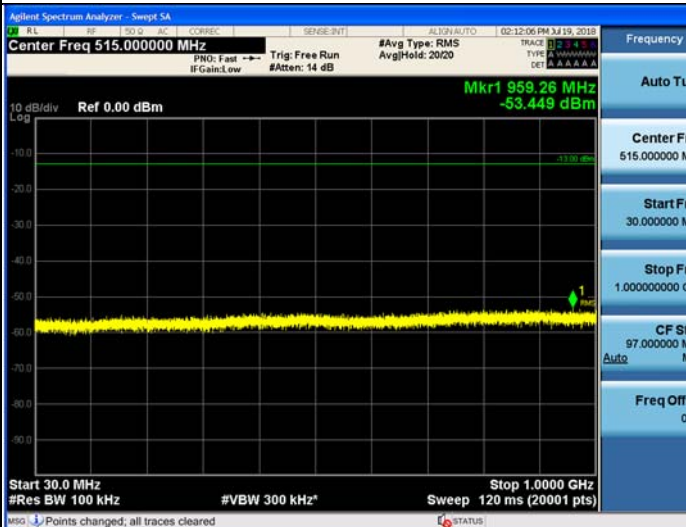
9 kHz ~ 150 kHz



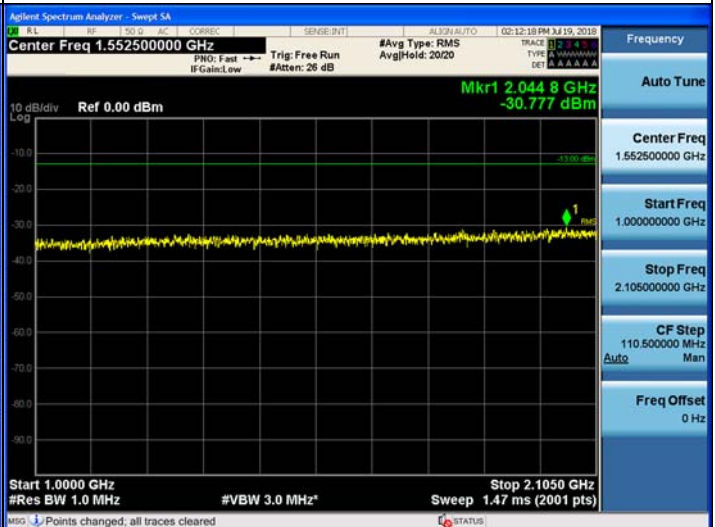
150 kHz ~ 30 MHz



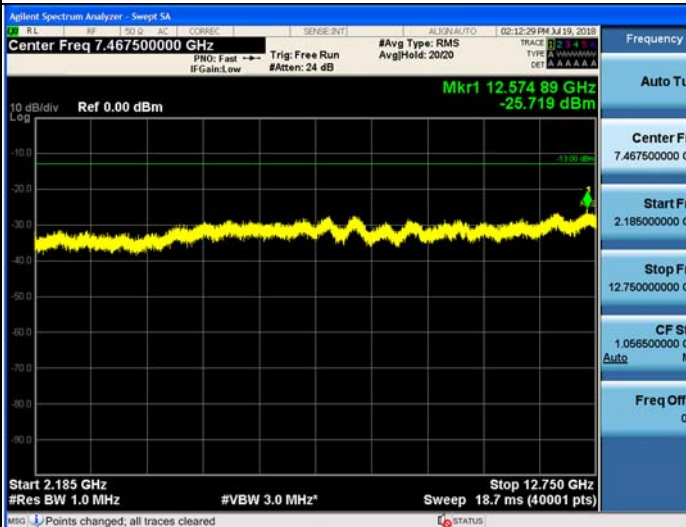
30 MHz ~ 1 GHz



1 GHz ~ 2.105 GHz



2.185 GHz ~ 12.75 GHz

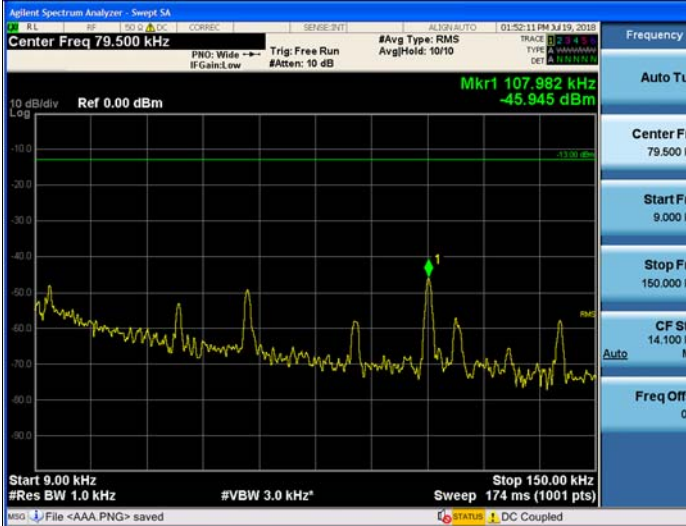


12.75 GHz ~ 26.5 GHz

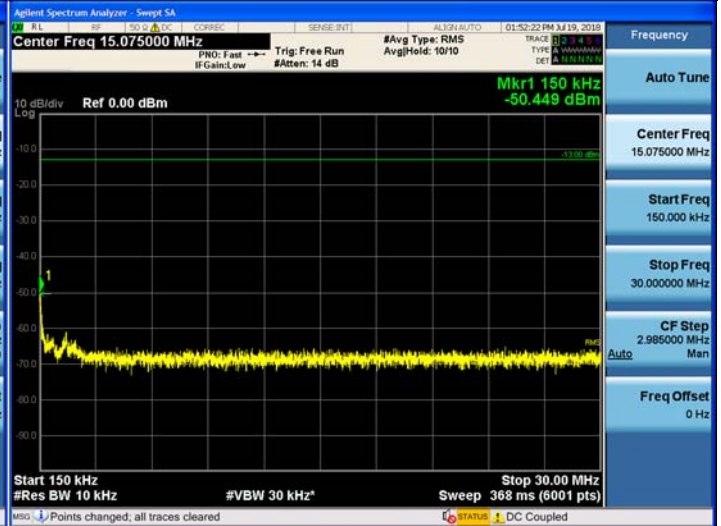


Middle Channel

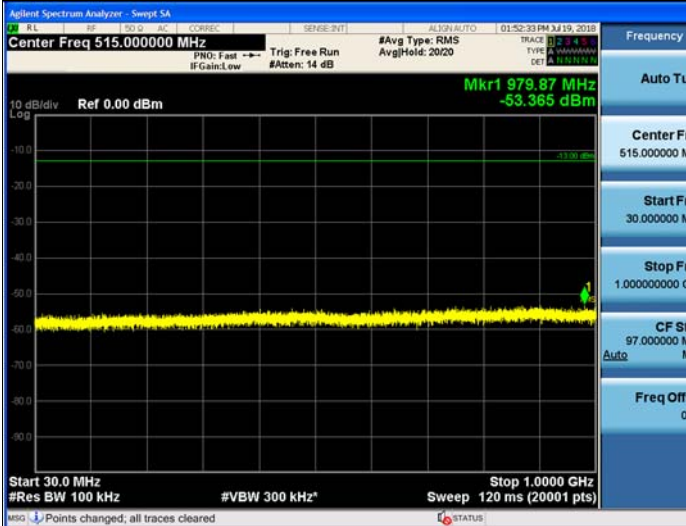
9 kHz ~ 150 kHz



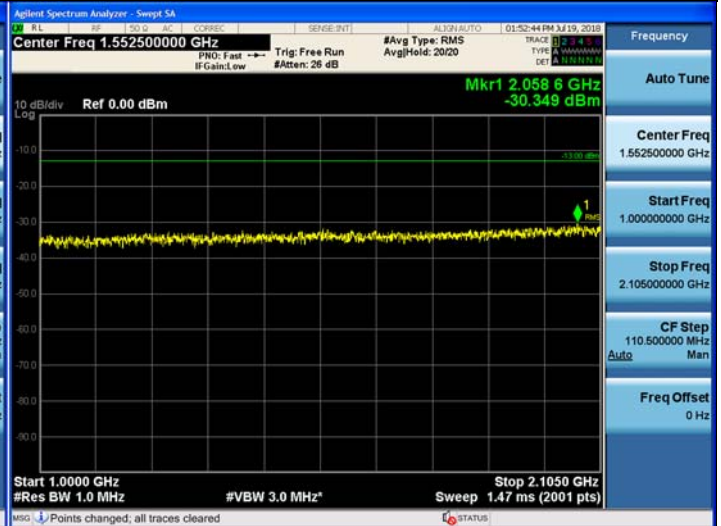
150 kHz ~ 30 MHz



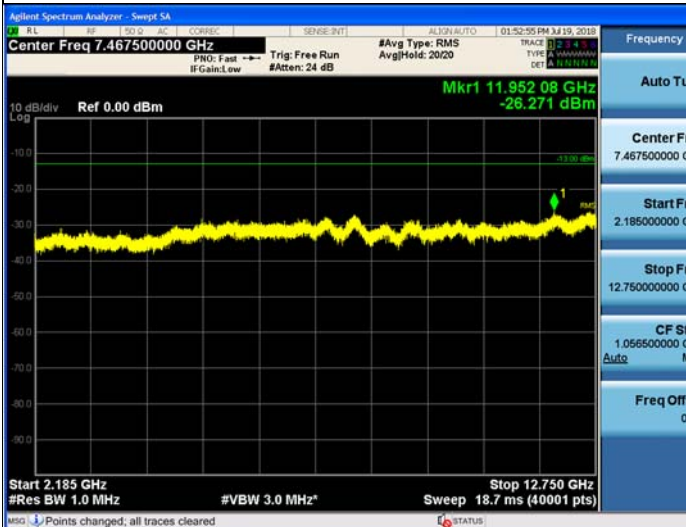
30 MHz ~ 1 GHz



1 GHz ~ 2.105 GHz



2.185 GHz ~ 12.75 GHz

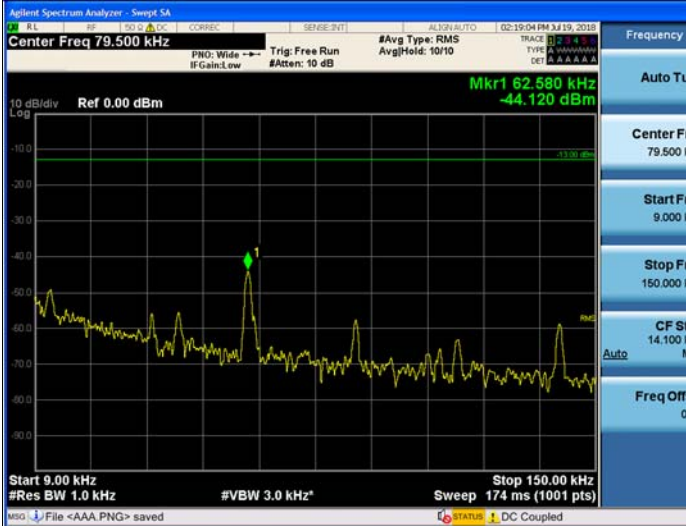


12.75 GHz ~ 26.5 GHz

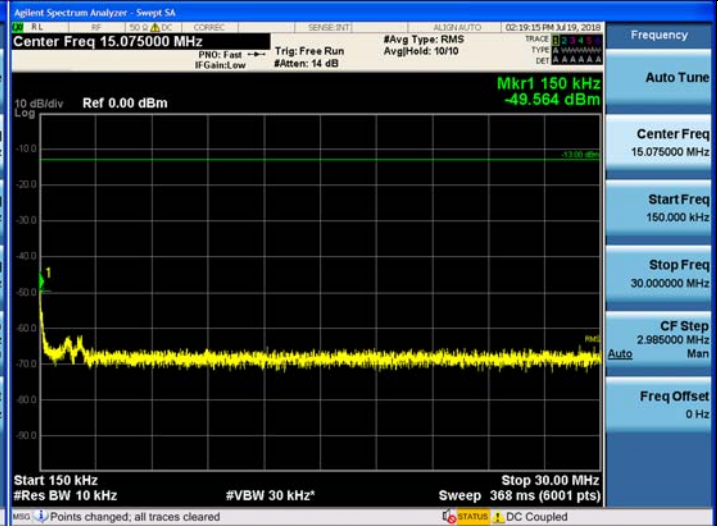


High Channel

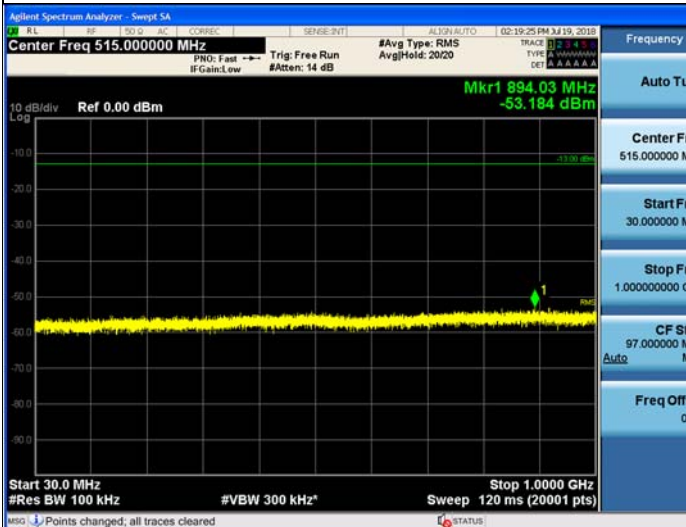
9 kHz ~ 150 kHz



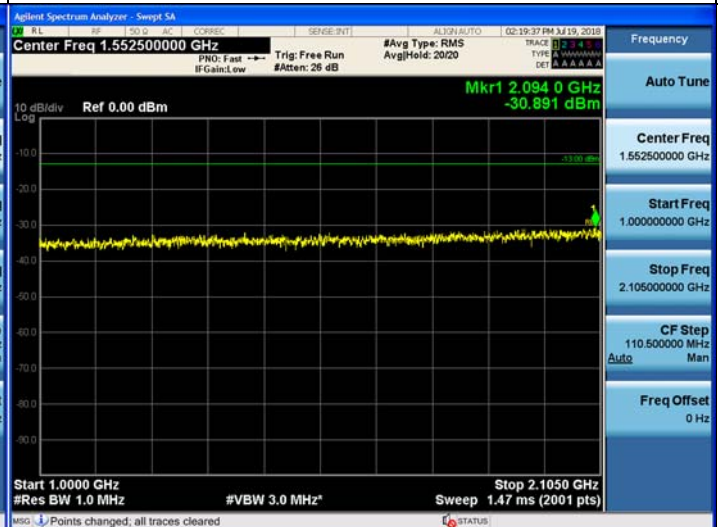
150 kHz ~ 30 MHz



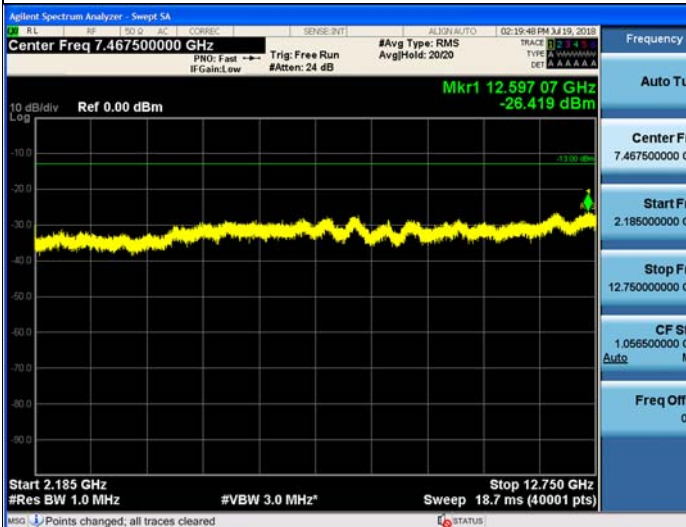
30 MHz ~ 1 GHz



1 GHz ~ 2.105 GHz



2.185 GHz ~ 12.75 GHz



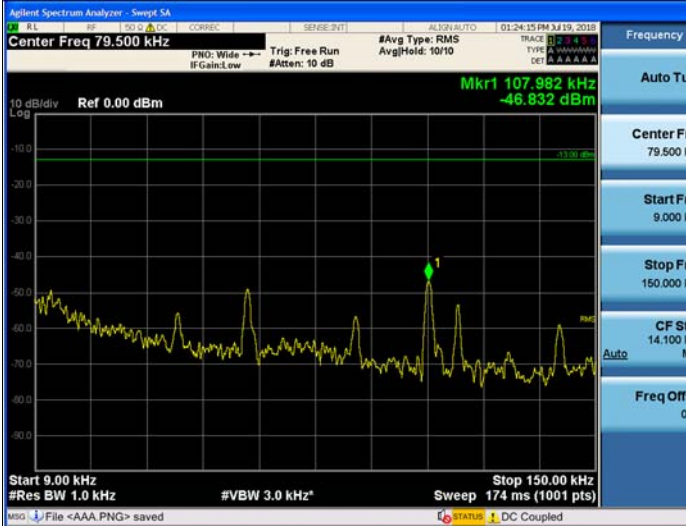
12.75 GHz ~ 26.5 GHz



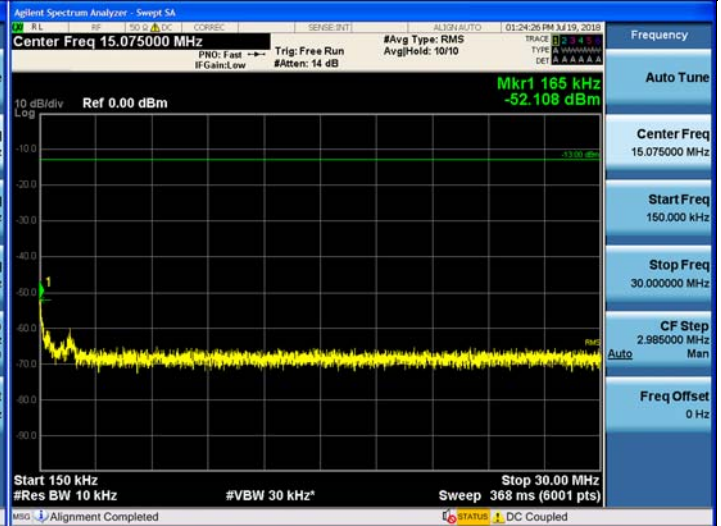
Plots of Unwanted Conducted Emissions for AWS 2100 Band CDMA

Low Channel

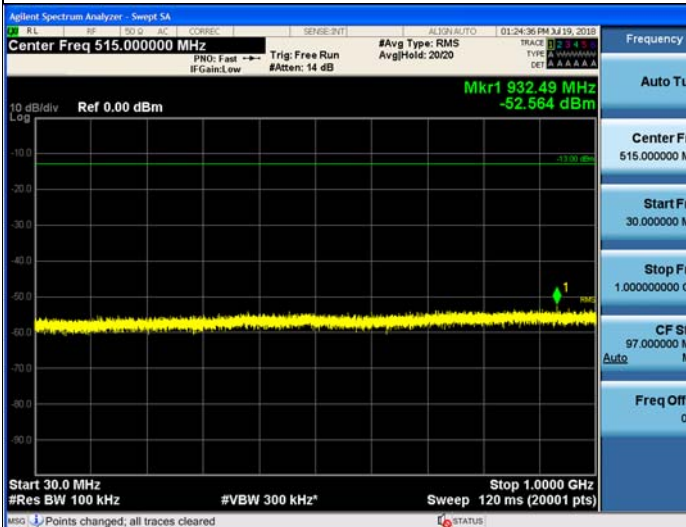
9 kHz ~ 150 kHz



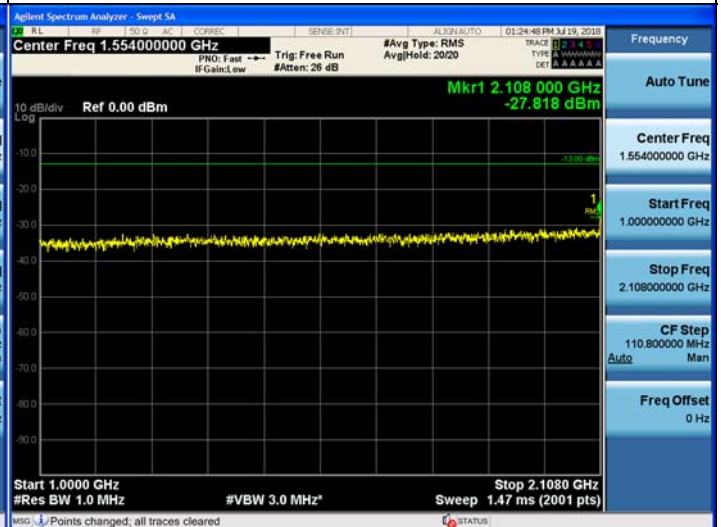
150 kHz ~ 30 MHz



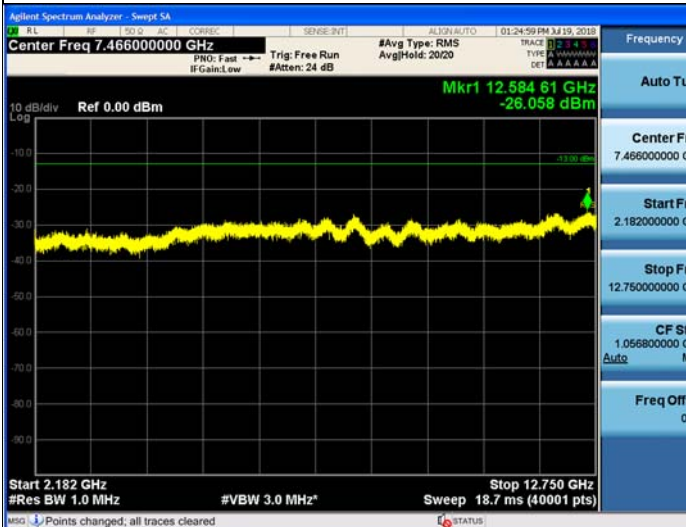
30 MHz ~ 1 GHz



1 GHz ~ 2.108 GHz



2.182 GHz ~ 12.75 GHz



12.75 GHz ~ 26.5 GHz

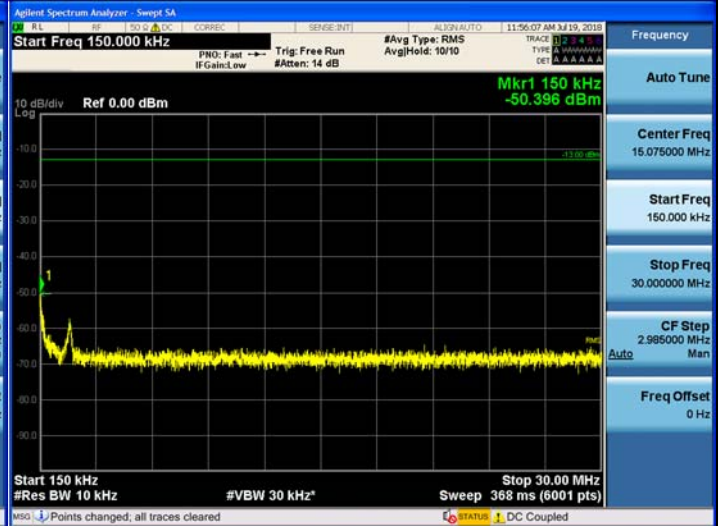


Middle Channel

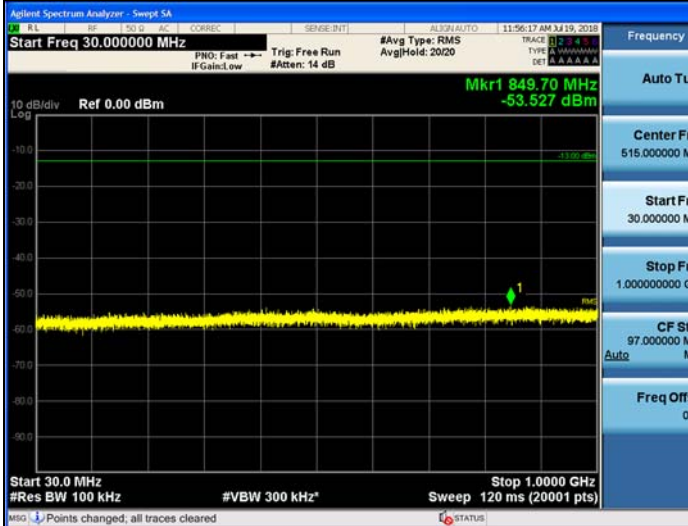
9 kHz ~ 150 kHz



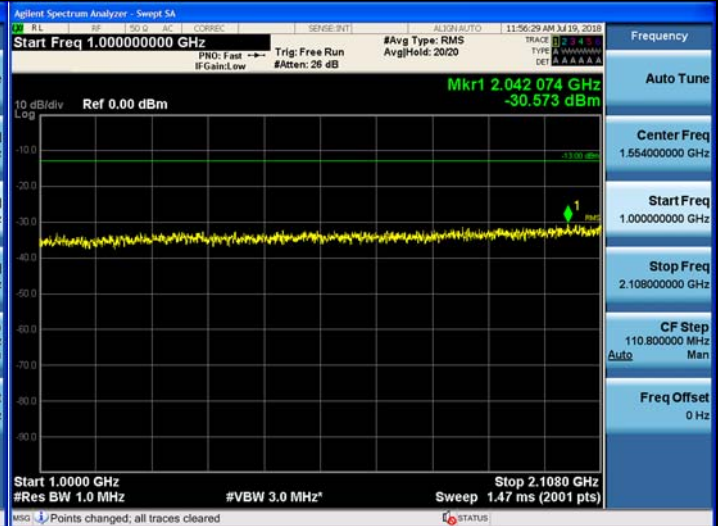
150 kHz ~ 30 MHz



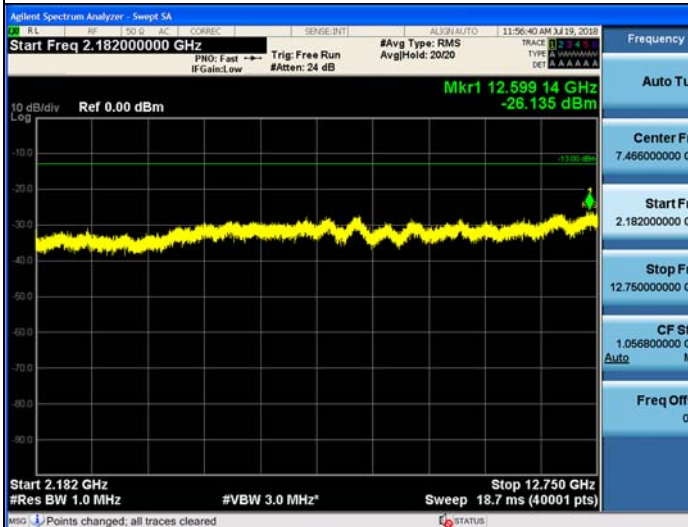
30 MHz ~ 1 GHz



1 GHz ~ 2.108 GHz



2.182 GHz ~ 12.75 GHz



12.75 GHz ~ 26.5 GHz

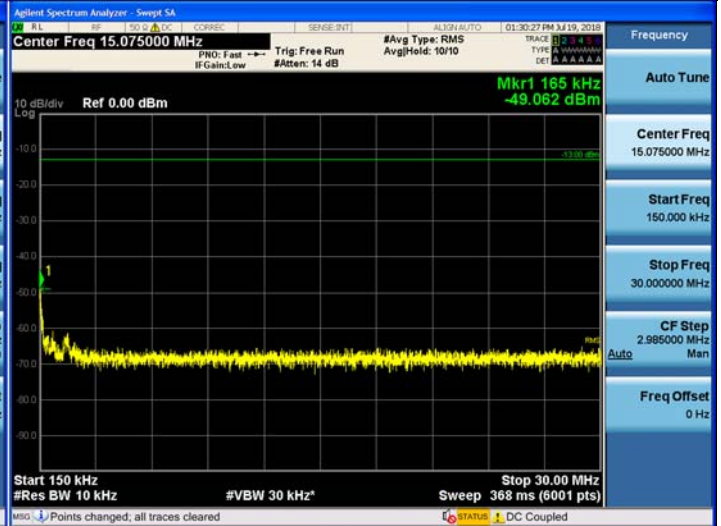


High Channel

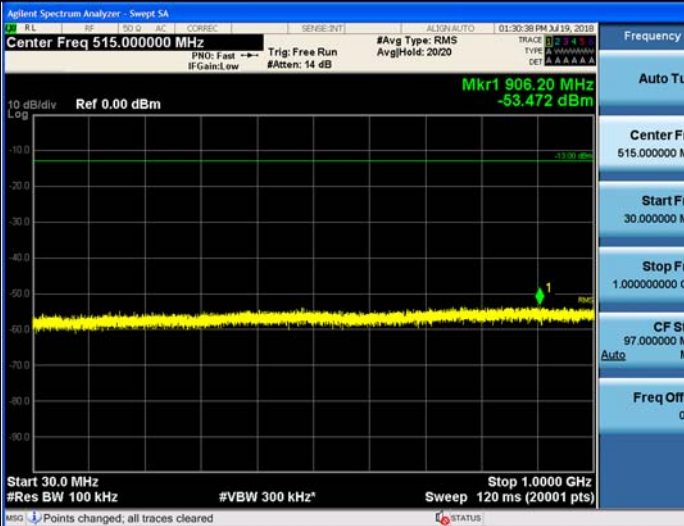
9 kHz ~ 150 kHz



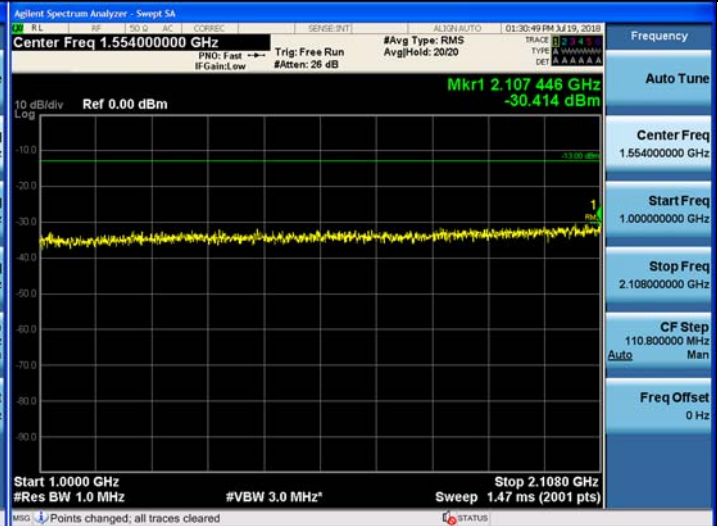
150 kHz ~ 30 MHz



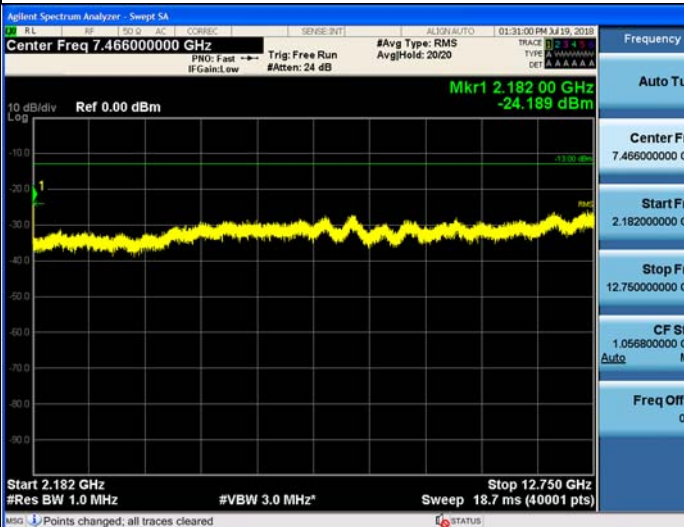
30 MHz ~ 1 GHz



1 GHz ~ 2.108 GHz



2.182 GHz ~ 12.75 GHz



12.75 GHz ~ 26.5 GHz



Plots of Band Edge for LTE 5 MHz_AWS 2100 LTE Band



Plots of Band Edge for LTE 10 MHz_AWS 2100 LTE Band



Plots of Band Edge for LTE 20 MHz_AWS 2100 LTE Band



Plots of Band Edge for_AWS 2100 WCDMA



Plots of Band Edge for_AWS 2100 CDMA



Plots of Intermodulation for LTE 5 MHz_AWS 2100 LTE Band



Plots of Intermodulation for LTE 10 MHz_AWS 2100 LTE Band



Plots of Intermodulation for LTE 20 MHz_AWS 2100 LTE Band



Plots of Intermodulation for_AWS 2100 WCDMA



Plots of Intermodulation for_AWS 2100 CDMA



11. RADIATED SPURIOUS EMISSIONS

FCC Rules

Test Requirements:

§ 2.1053 Measurements required: Field strength of spurious radiation.

(a) Measurements shall be made to detect spurious emissions that may be radiated directly from the cabinet, control circuits, power leads, or intermediate circuit elements under normal conditions of installation and operation. Curves or equivalent data shall be supplied showing the magnitude of each harmonic and other spurious emission. For this test, single sideband, independent sideband, and controlled carrier transmitters shall be modulated under the conditions specified in paragraph (c) of §2.1049, as appropriate. For equipment operating on frequencies below 890 MHz, an open field test is normally required, with the measuring instrument antenna located in the far-field at all test frequencies. In the event it is either impractical or impossible to make open field measurements (e.g. a broadcast transmitter installed in a building) measurements will be accepted of the equipment as installed. Such measurements must be accompanied by a description of the site where the measurements were made showing the location of any possible source of reflections which might distort the field strength measurements. Information submitted shall include the relative radiated power of each spurious emission with reference to the rated power output of the transmitter, assuming all emissions are radiated from halfwave dipole antennas.

(b) The measurements specified in paragraph (a) of this section shall be made for the following equipment:

- (1) Those in which the spurious emissions are required to be 60 dB or more below the mean power of the transmitter.
- (2) All equipment operating on frequencies higher than 25 MHz.
- (3) All equipment where the antenna is an integral part of, and attached directly to the transmitter.
- (4) Other types of equipment as required, when deemed necessary by the Commission.

ISED Rules

Test Requirements:

RSS-Gen

7. Receiver emissions limits

7.3 Receiver radiated emission limits

Radiated emission measurements shall be performed with the receiver antenna connected to the receiver antenna ports. The search for spurious emissions shall be from the lowest frequency internally generated or used in the receiver (e.g. local oscillator, intermediate or carrier frequency), or 30 MHz, whichever is higher, to at least five times the highest tunable or

local oscillator frequency, whichever is higher, without exceeding 40 GHz. Spurious emissions from receivers shall not exceed the radiated emissions limits shown in Table 3.

Table 3 – Receiver radiated emissions limits	
Frequency (MHz)	Field Strength ($\mu\text{V}/\text{m}$ at 3 metres)*
30-88	100
88-216	150
216-960	200
Above 960	500

Footnote *: Measurements for compliance with the limits in table 3 may be performed at distances other than 3 metres, in accordance with section 6.6.

Test Procedures:

The measurement is performed in accordance with Section 5.5.3.2 of ANSI C63.26.

a) Place the EUT in the center of the turntable. The EUT shall be configured to transmit into the standard non-radiating load (for measuring radiated spurious emissions), connected with cables of minimal length unless specified otherwise. If the EUT uses an adjustable antenna, the antenna shall be positioned to the length that produces the worst case emission at the fundamental operating frequency.

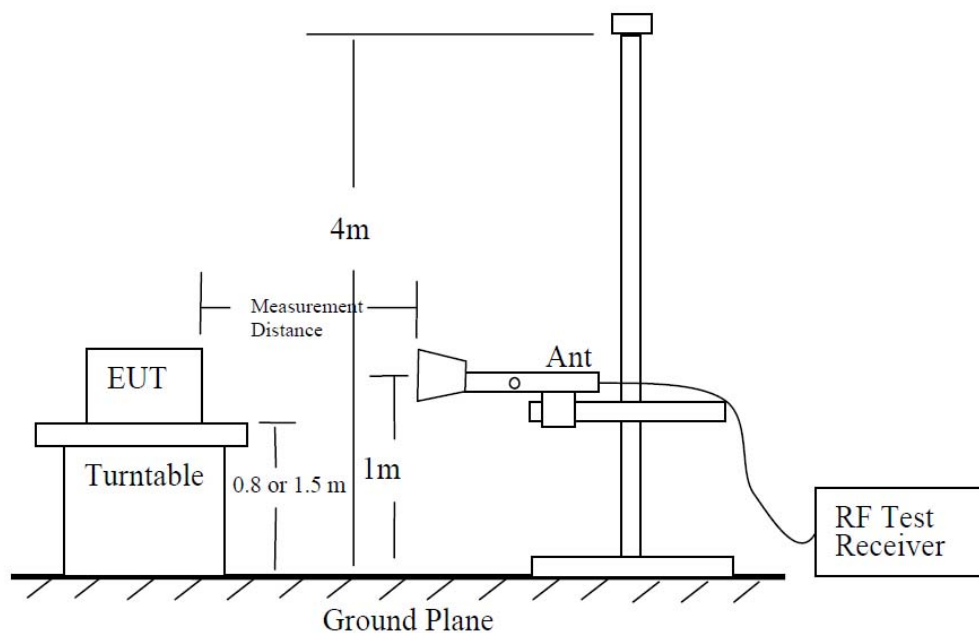
b) Each emission under consideration shall be evaluated:

- 1) Raise and lower the measurement antenna in accordance 5.5.2, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
- 2) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
- 3) Return the turntable to the azimuth where the highest emission amplitude level was observed.
- 4) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
- 5) Record the measured emission amplitude level and frequency using the appropriate RBW.

c) Repeat step b) for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.

d) ~ j) Omitted

k) Provide the complete measurement results as a part of the test report.

Test Setup:**Note:**

- 1) According to SVSWR requirement in ANSI 63.4 (2014), we performed the radiated test at 3.75 m distance from center of turn table. So, we applied the distance factor (reference distance: 3 m).
- 2) Distance extrapolation factor = $20 \log (\text{test distance} / \text{specific distance})$ (dB)
- 3) Position of EUT for testing below 1 GHz test is 80 cm, and above 1 GHz is 1.5 m

Receiver Spurious Emissions Test Result:

ISED Rule(s): RSS-Gen
Test Requirements: Blow the table
Operating conditions: Under normal test conditions
Method of testing: Radiated

S/A. Settings: F < 1 GHz: RBW: 120 kHz, VBW: 300 kHz (Quasi Peak)
F > 1 GHz: RBW: 1 MHz, VBW: 1 MHz (Peak)
Mode of operation: Receive

Frequency (MHz)	Field Strength (microvolts/m at 3 meters)
30 – 88	100
88 - 216	150
216 – 960	200
Above 960	500

Operation Mode: Receive:

30 MHz ~ 1 GHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dB μ V	dB /m	dB	(H/V)	dB μ V/m	dB μ V/m	dB
No critical peaks found							

Above 1 GHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dB μ V	dB /m	dB	(H/V)	dB μ V/m	dB μ V/m	dB
No critical peaks found							

Radiated Spurious Emissions Test Result:

Harmonics were not found.

[Downlink]

Ch.	Freq.(MHz)	Measured Level [dBuV/m]	Measured Power [dBm]	Ant. Factor [dB/m]	C.L [dB]	A.G. [dB]	D.F. [dB]	Pol.	Result [dBm]
No Critical Peaks Found									

* C.L.: Cable Loss / A.G.: Ant. Gain / D.F.: Distance Factor (3.75 m)

Notes:

We have done horizontal and vertical polarization in detecting antenna.

12. FREQUENCY STABILITY OVER TEMPERATURE AND VOLTAGE VARIATIONS

FCC Rules

Test Requirements:

§ 2.1055 Measurements required: Frequency stability.

(a) The frequency stability shall be measured with variation of ambient temperature as follows:

- (1) From -30° to $+50^{\circ}$ centigrade for all equipment except that specified in paragraphs (a) (2) and (3) of this section.

§ 22.355 Frequency tolerance.

Except as otherwise provided in this part, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section.

Table C-1—Frequency Tolerance for Transmitters in the Public Mobile Services

Frequency range (MHz)	Base, fixed (ppm)	Mobile >3 watts (ppm)	Mobile ≤3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929	5.0	n/a	n/a
929 to 960	1.5	n/a	n/a
2110 to 2220	10.0	n/a	n/a

§ 24.235 Frequency stability.

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

§ 27.54 Frequency stability.

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

§ 90.213 Frequency stability

(a) Unless noted elsewhere, transmitters used in the services governed by this part must have a minimum frequency stability as specified in the following table.

Minimum Frequency Stability [Parts per million (ppm)]

Frequency range (MHz)	Fixed and base stations	Mobile stations	
		Over 2 watts output power	2 watts or less output power
Below 25	100	100	200
25-50	20	20	50
72-76	5		50
150-174	5	5	50
216-220	1.0		1.0
220-222	0.1	1.5	1.5
421-512	2.5	5	5
806-809	1.0	1.5	1.5
809-824	1.5	2.5	2.5
851-854	1.0	1.5	1.5
854-869	1.5	2.5	2.5
896-901	0.1	1.5	1.5
902-928	2.5	2.5	2.5
902-928	2.5	2.5	2.5
929-930	1.5		
935-940	0.1	1.5	1.5
1427-1435	300	300	300
Above 2450			

(b) For the purpose of determining the frequency stability limits, the power of a transmitter is considered to be the maximum rated output power as specified by the manufacturer.

ISED Rules

Test Requirements:

RSS-119

5. Transmitter and Receiver Specifications

5.3 Transmitter Frequency Stability

The carrier frequency shall not depart from the reference frequency in excess of the values given in Table 1. For transmitters that have an output power of less than 120 mW, the frequency stability shall comply with the limits listed in Table 1 or, alternatively, with the conditions in Section 5.10.

For fixed and base station equipment, in lieu of meeting the frequency stability limit specified in Table 1, the test report can show that the frequency stability is met by demonstrating that the unwanted emission limits, related to the equipment's nominal carrier frequency measured under normal operation, are met when the equipment is tested at the temperature and supply voltage variations specified for the frequency stability measurement in RSS-Gen.

Frequency Band (MHz)	Channel Bandwidth (kHz)	Frequency Stability (ppm)		
		Base/Fixed	Mobile Station	
			Output Power >2 W	Output Power ≤2 W
27.41-28 and 29.7-50	20	20	20	50
72-76	20	5	20	50
138-174	30	5	5	5
	15	2.5	5	5
	7.5	1	2	5
217-218 and 219-220	12.5	1	5	5
220-222	5	0.1	1.5	1.5
406.1-430 and 450-470	25	0.5	1	1
	25	2.5	5	5
	12.5	1.5	2.5	2.5
	6.25	0.5	1	1
768-776 and 798-806	25	0.1	0.4	0.4
	12.5			
	6.25			
	50	1	1.25	1.25
806-821/851-866 and 821-824/866- 869	25	0.1	0.1	0.1
	25	1.5	2.5	2.5
	12.5	1	1.5	1.5
	6.25	0.1	0.4	0.4
896-901/935-940	12.5	0.1	1.5	1.5
929-930/931-932	25	1.5	N/A	N/A
928-929/952-953 and 932-932.5/941- 941.5	25	1.5	N/A	N/A
	12.5	1	3 (for remote station)	N/A
932.5-935/941.5-944	25	2.5	N/A	N/A
	12.5	2.5	N/A	N/A

RSS-130**4. Transmitter and Receiver Standard Specifications****4.3 Transmitter Frequency Stability**

The transmitter frequency stability limit shall be determined as follows:

- (a) The frequency offset shall be measured according to the procedure described in RSS-Gen and recorded;
- (b) Using a resolution bandwidth of 1% of the occupied bandwidth, a reference point at the unwanted emission level which complies with the attenuation of $43 + 10 \log_{10} p$ (watts) on the emission mask of the lowest and highest channel shall be selected, and the frequency at these points shall be recorded as f_L and f_H respectively.

The applicant shall ensure frequency stability by showing that f_L minus the frequency offset and f_H plus the frequency offset shall be within the frequency range in which the equipment is designed to operate.

RSS-131**5. Equipment standard specifications for zone enhancers working with equipment certified in RSSs listed in section 1 except RSS-119****5.2 Industrial Zone Enhancers****5.2.4 Frequency stability**

Industrial Zone Enhancers shall comply with the frequency stability given in the RSS that applies to the equipment with which the zone enhancer is to be used. In cases where the frequency stability limit is not given in the applicable RSS, the equipment shall comply with a frequency stability of ± 1.5 ppm.

For zone enhancers with no input signal processing capability, the frequency stability measurement in this section is not required.

RSS-132**5. Transmitter Standard Specifications****5.3 Frequency Stability**

The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations and ± 1.5 ppm for base stations.

In lieu of meeting the above stability values, the test report may show that the frequency stability is sufficient to ensure that the occupied bandwidth stays within each of the sub-bands (see Section 5.1) when tested to the temperature and supply voltage variations specified in RSS-Gen.

RSS-133**6. Transmitter and Receiver Standard Specifications****6.3 Frequency Stability**

The carrier frequency shall not depart from the reference frequency, in excess of ± 2.5 ppm for mobile stations and ± 1.0 ppm for base stations.

In lieu of meeting the above stability values, the test report may show that the frequency stability is sufficient to ensure that the emission bandwidth stays within the operating frequency block when tested to the temperature and supply voltage variations specified in RSS-Gen.

RSS-139**6. Transmitter Standard Specifications****6.4 Frequency Stability**

The frequency stability shall be sufficient to ensure that the occupied bandwidth stays within the operating frequency block when tested to the temperature and supply voltage variations specified in RSS-Gen.

RSS-140**4. Transmitter specifications****4.2 Transmitter frequency stability**

The frequency stability shall be sufficient to ensure that the occupied bandwidth stays within the operating frequency block when tested at the temperature and supply voltage variations specified in RSS-Gen.

Test Procedures:

As required by 47 CFR 2.1055, *Frequency Stability measurements* were made at the RF output terminals using a Spectrum Analyzer.

The EUT was placed in the Environmental Chamber.

A CW signal was injected into the EUT at the appropriate RF level. The frequency counter option on the Spectrum Analyzer was used to measure frequency deviations.

The frequency drift was investigated for every 10 °C increment until the unit is stabilized then recorded the reading in tabular format with the temperature range of -30 to 50 °C.

Voltage supplied to EUT is 110 Vac reference temperature was done at 20°C.

The voltage was varied by ± 15 % of nominal

RSS-Gen**6. General administrative and technical requirements****6.11 Transmitter Frequency Stability**

Frequency stability is a measure of frequency drift due to temperature and supply voltage

variations, with reference to the frequency measured at an appropriate reference temperature and the rated supply voltage.

When the measurement method of transmitter frequency stability is not stated in the applicable RSS or reference standards, the following conditions apply:

- a. The reference temperature for radio transmitters is +20°C (+68°F).
- b. A hand-held device that is only capable of operating using internal batteries shall be tested at the battery's nominal voltage, and again at the battery's operating end-point voltage, which shall be specified by the equipment manufacturer. For this test, either a battery or an external power supply can be used.
- c. The operating carrier frequency shall be set up in accordance with the manufacturer's published operation and instruction manual prior to the commencement of these tests. No adjustment of any frequency-determining circuit element shall be made subsequent to this initial set-up.

With the transmitter installed in an environmental test chamber, the unmodulated carrier frequency and frequency stability shall be measured under the conditions specified below for licensed and licence-exempt devices, unless specified otherwise in the applicable RSS. A sufficient stabilization period at each temperature shall be used prior to each frequency measurement.

For licensed devices, the following measurement conditions apply:

- a. at the temperatures of -30°C (-22°F), +20°C (+68°F) and +50°C (+122°F), and at the manufacturer's rated supply voltage
- b. at the temperature of +20°C (+68°F) and at ±15% of the manufacturer's rated supply voltage

For licence-exempt devices, the following conditions apply:

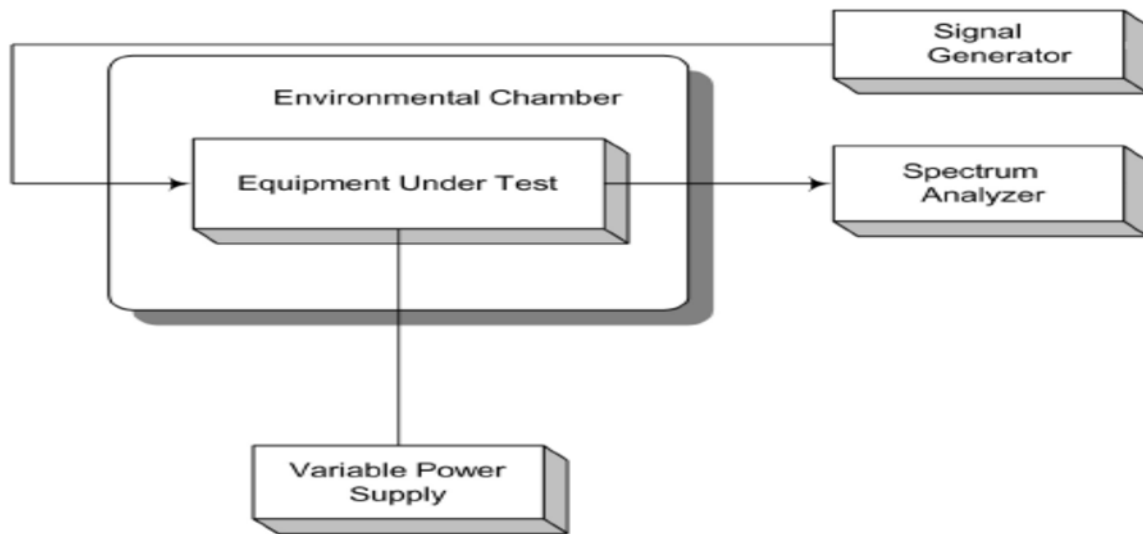
- a. at the temperatures of -20°C (-4°F), +20°C (+68°F) and +50°C (+122°F), and at the manufacturer's rated supply voltage
- b. at the temperature of +20°C (+68°F) and at ±15% of the manufacturer's rated supply voltage

If the frequency stability limits are only met within a temperature range that is smaller than the range specified in (a) for licensed or licence-exempt devices, the frequency stability requirement will be deemed to be met if the transmitter is automatically prevented from operating outside this smaller temperature range and if the published operating characteristics for the equipment are revised to reflect this restricted temperature range.

If the device contains both licence and licence-exempt transmitter modules, the device's frequency stability shall be measured under the most stringent condition specified in the applicable RSS of the transmitter module.

In addition, if an unmodulated carrier is not available, the method used to measure frequency stability shall be described in the test report.

Test Setup:



* Note: This EUT is supported power supply both of AC and DC. Test results are only attached worst cases.

Test Results:

Frequency Stability and Voltage Test Results

[Downlink_700 LTE]

Reference: 120 Vac at 20°C Freq. = 742.0 MHz

Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (Hz)	ppm
100%	+20(Ref)	742 000 001	0.586	0.000	0.00000
	-30	742 000 000	-0.030	-0.616	-0.00083
	-20	741 999 999	-0.696	-1.282	-0.00173
	-10	742 000 001	0.513	-0.073	-0.00010
	0	742 000 000	0.017	-0.569	-0.00077
	+10	742 000 000	-0.275	-0.861	-0.00116
	+30	742 000 000	-0.334	-0.920	-0.00124
	+40	742 000 001	0.579	-0.007	-0.00001
	+50	742 000 001	0.882	0.296	0.00040
High	+20	742 000 000	-0.309	-0.895	-0.00121
Low	+20	742 000 000	0.426	-0.161	-0.00022

[Downlink_FirstNet]

Reference: 120 Vac at 20°C Freq. = 763.0 MHz

Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (Hz)	ppm
100%	+20(Ref)	762 999 999	-0.502	0.000	0.00000
	-30	763 000 000	-0.053	0.449	0.00059
	-20	763 000 000	-0.281	0.220	0.00029
	-10	763 000 000	0.093	0.595	0.00078
	0	763 000 001	0.509	1.011	0.00132
	+10	763 000 000	-0.409	0.093	0.00012
	+30	763 000 001	0.778	1.280	0.00168
	+40	763 000 001	0.646	1.148	0.00150
	+50	762 999 999	-0.606	-0.104	-0.00014
High	+20	763 000 000	-0.308	0.194	0.00025
Low	+20	763 000 000	0.237	0.739	0.00097

[Downlink_800 IDEN]

Reference: 120 Vac at 20°C Freq. = 865.5 MHz

Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (Hz)	ppm
100%	+20(Ref)	865 500 001	0.891	0.000	0.00000
	-30	865 500 000	0.464	-0.427	-0.00049
	-20	865 499 999	-0.898	-1.789	-0.00207
	-10	865 500 000	0.194	-0.698	-0.00081
	0	865 499 999	-0.962	-1.853	-0.00214
	+10	865 499 999	-0.844	-1.735	-0.00200
	+30	865 500 000	-0.071	-0.962	-0.00111
	+40	865 500 000	0.191	-0.700	-0.00081
	+50	865 499 999	-0.913	-1.805	-0.00209
High	+20	865 500 001	0.510	-0.381	-0.00044
Low	+20	865 499 999	-0.962	-1.854	-0.00214

[Downlink_850 CEL]

Reference: 120 Vac at 20°C Freq. = 881.5 MHz

Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (Hz)	ppm
100%	+20(Ref)	881 500 000	0.234	0.000	0.00000
	-30	881 500 000	-0.182	-0.415	-0.00047
	-20	881 500 000	0.492	0.258	0.00029
	-10	881 499 999	-0.933	-1.167	-0.00132
	0	881 500 001	0.893	0.659	0.00075
	+10	881 500 001	0.643	0.409	0.00046
	+30	881 500 001	0.675	0.441	0.00050
	+40	881 500 000	0.025	-0.209	-0.00024
	+50	881 500 001	0.580	0.347	0.00039
High	+20	881 500 000	-0.460	-0.693	-0.00079
Low	+20	881 500 000	-0.356	-0.590	-0.00067

[Downlink_1900 PCS Band]

Reference: 120 Vac at 20°C Freq. = 1962.50 MHz

Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (Hz)	ppm
100%	+20(Ref)	1962 500 001	0.601	0.000	0.00000
	-30	1962 500 000	0.427	-0.174	-0.00009
	-20	1962 500 001	0.678	0.077	0.00004
	-10	1962 499 999	-0.581	-1.182	-0.00060
	0	1962 499 999	-0.849	-1.450	-0.00074
	+10	1962 500 001	0.616	0.015	0.00001
	+30	1962 500 000	-0.033	-0.633	-0.00032
	+40	1962 500 000	0.131	-0.469	-0.00024
	+50	1962 500 000	-0.244	-0.845	-0.00043
High	+20	1962 499 999	-0.711	-1.312	-0.00067
Low	+20	1962 500 000	0.163	-0.437	-0.00022

[Downlink_AWS 2100 Band]

Reference: 120 Vac at 20°C Freq. = 2145.0 MHz

Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (Hz)	ppm
100%	+20(Ref)	2145 000 000	-0.492	0.000	0.00000
	-30	2145 000 000	0.032	0.524	0.00024
	-20	2145 000 000	0.058	0.551	0.00026
	-10	2145 000 001	0.683	1.176	0.00055
	0	2145 000 001	0.506	0.999	0.00047
	+10	2145 000 001	0.787	1.279	0.00060
	+30	2145 000 000	-0.281	0.211	0.00010
	+40	2145 000 000	-0.094	0.398	0.00019
	+50	2145 000 001	0.503	0.995	0.00046
High	+20	2144 999 999	-0.573	-0.081	-0.00004
Low	+20	2144 999 999	-0.595	-0.102	-0.00005

13. Annex A_EUT AND TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-1808-FI005-P